



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Rosalie A. Centeno
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In the Application of Jan Boris Rudkowski et al

Ser.No.: 10/567,835

Filed: February 8, 2006

For: DEVICE FOR THE UV TREATMENT OF FLOWING FLUIDS

Customer Number: 30996

Commissioner of Patents

Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR § 1.56, Applicant wishes to call the attention of the Examiner to the following references:

- 1) US 6,459,087
- 2) WO 01/17906
- 3) WO 01/17907
- 4) WO 01/96823
- 5) DE 297 07 052

References 1 – 4 are all in the English language and therefore need no further discussion as to their relevance. In accordance with United States Patent and Trademark

practice, it is no longer necessary to enclose copies of U.S. Patents.

Reference 5, DE 297 07 052, discloses in order to ensure the proper functioning of an UV-irradiation reactor with more than one UV-irradiation emitters, especially if the reactor is used for disinfecting drinking water, it is necessary to separately monitor each emitter. The invention therefore concerns an UV-irradiating means with an integrated irradiation-measuring instrument.

The UV-irradiating means comprises a glow discharge lamp, configured as an elongated or U-shaped evacuated gas discharge tube having a circular or oval profile with two electrodes located on the ends, which are connected to conducting electrical contacts that extend to the outside of the gas discharge tube, and with at least one attached base or socket for the mounting and the electrical supply of the gas discharge tube. The base or socket is provided with at least one boring that is placed so as to be parallel to the axis of the gas discharge tube and serves for the mounting of the measuring instrument. The distance between the boring and the centerline of the gas discharge tube does not exceed the radius of the gas discharge tube by more than 10 mm. Due to the hence small distance between the gas discharge tube and the measuring instrument, the irradiation intensity available for the measuring instrument is 10 to 50 times higher than in conventional arrangements.

The UV-irradiating means further comprises at least one rod-shaped measuring instrument for measuring the UV-radiation emitted by the glow discharge lamp. The measuring instrument is arranged so as to be parallel to the axis of the glow discharge lamp and comprises an optical receiver, a lightwave conductor and a UV sensible photocell. The optical receiver is configured as a diffuser that deflects the entering UV waves by 90 degrees in the direction parallel to the main axis of the UV emitter. Subsequently, the waves travel through the lightwave conductor, which is configured as a solid or hollow rod composed of a

UV permeable material such as quartz, and hit the photocell, which is located in the base or socket of the gas discharge tube. The arrangement described above has the advantage that the transformation and analysis of the UV radiation via the photocell can take place in the less confined and cooler area of the base or socket. The optical receiver is located in a distance of at least 20 mm, in axial direction, from the electrode of the gas discharge tube. Incorrect measurements due to blackening of the gas discharge tube in the area of the electrodes can hence be avoided. The lightwave conductor has a smooth or polished surface, so that UV waves that enter through the sides are reflected or transmitted, but not measurably scattered.

Copies of the listed documents, with the exception of any US Patent references, are submitted herewith along with the form PTO-1449.

It is respectfully requested that any fees required and not enclosed herewith or any shortages in any fees be charged to Deposit Account 02-1653.

Consideration of the foregoing in relation to this application is respectfully requested.

Respectfully submitted,



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Enclosures



**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Complete if Known

CUSTOMER NUMBER: 30996	Application Number	10/567,835
	Filing Date	February 8, 2006
	First Named Inventor	Rudkowski et al
	Group Art Unit	
	Examiner Name	
	Attorney Docket No.	LE/cc 030100US

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER PRIOR ART & NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	

Examiner		Date	
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